

Patent Claims

1. A standby power supply, in particular for telecommunications terminals, comprising:
- 5 a base unit (1) for producing a link to a communications network (KN);
a power supply unit (6) for supplying power to the base unit (1) during mains operation;
at least one mobile part (2) with an associated mobile
10 power supply unit (EM) for producing a link to the base unit (1); and
a standby power supply unit (NSV) for supplying standby power to the base unit (1) during standby operation, with the standby power supply being drawn from the
15 mobile power supply unit (EM) for the at least one mobile part (2) by the standby power supply unit (NSV), characterized in that a part (L1,L2) of the power supply unit (6) represents a DC-isolation unit for the standby power supply unit (NSV) the standby power
20 supply unit (NSV) has an operating mode detection unit (EE), which detects each operating mode, in that the standby power supply unit (NSV) has a DC/AC inverter unit (Q₁, L₁, L₂) for converting a DC voltage from the mobile power supply unit (EM) to an AC voltage
25 for supplying standby power to the base unit (1), and in that the standby power supply unit (NSV) has a control unit (SE) for controlling the DC/AC inverter unit as a function of the detected operating mode.
- 30 2. The standby power supply as claimed in patent claim 1,
characterized in that the mobile power supply unit (EM) represents a rechargeable energy store
and
35 the base

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unit (1) has a charging interface (3) for charging the
mobile power supply unit (EM) during mains operation,
with the charging interface (3) allowing the

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mobile power supply unit (EM) to discharge during standby operation.

3. The standby power supply as claimed in patent
5 claim 1 or 2,
characterized in that the power supply unit (6) has a
mains switching unit (RE) which allows disconnection
from an electrical mains system (EN) during standby
operation.

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4. The standby power supply as claimed in patent
claim 3,
characterized in that the mains switching unit (RE) is
a latching relay.

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5. The standby power supply as claimed in one of
patent claims 1 to 4,
characterized in that the standby power supply unit
(NSV) is provided in the mobile part (2) and in the
20 power supply unit (6).

6. The standby power supply as claimed in one of
patent claims 1 to 5,
characterized in that the mobile part (2) is a cordless
25 telephone with an integrated hands-free device.

7. A method for providing a standby power supply, in
particular in a telecommunications terminal, having a
base unit (1) for producing a link to a communications
30 network (KN);
having a power supply unit (6) for supplying power to
the base unit (1) during mains operation;
having at least one mobile part (2) with an associated
mobile power supply unit (EM) for producing a link to
35 the base unit (1); and

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having a standby power supply unit (NSV) for supplying standby power to the base unit (1) during standby operation, with the standby power supply being drawn from the mobile power supply unit

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(EM) for the at least one mobile part (2) by the
standby power supply unit (NSV),
characterized by the following steps:

the base unit (1) is DC-isolated from the mobile part
5 (2),
standby operation is detected by means of an operating
mode detection unit (EE),
an AC voltage is produced from a DC voltage (VCC_{MT}) in
the mobile power supply unit (EM); and
10 the AC voltage which is produced is transferred as a
standby power supply for the base unit (1).

8. The method as claimed in patent claim 7,
characterized by the following step:
15 the base unit (1) is electrically isolated from an
electrical mains system (EN) during standby operation.

9. The method as claimed in patent claim 8,
characterized in that the electrical isolation is
20 produced in the power supply unit (6).